

Figure 1

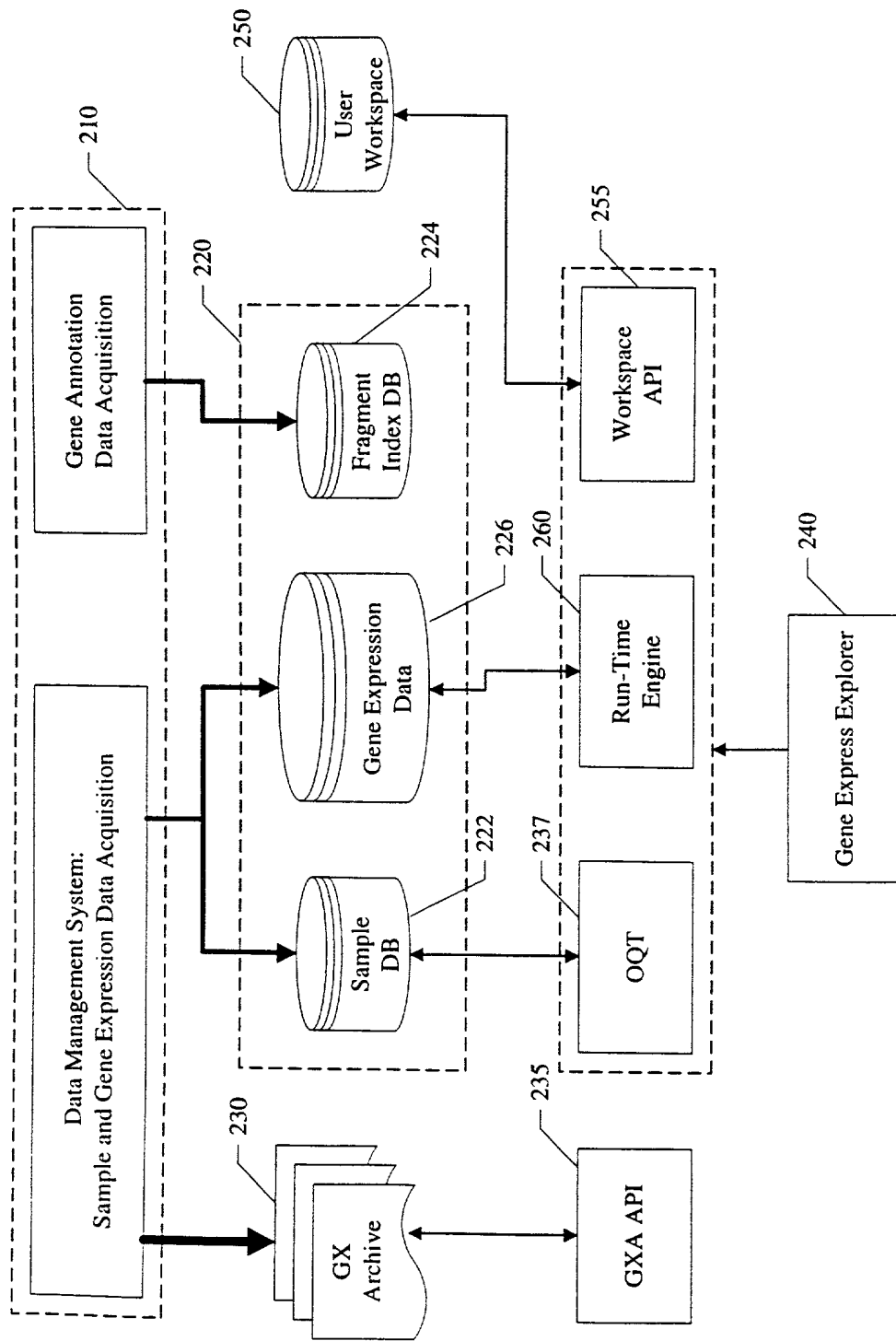


Figure 2

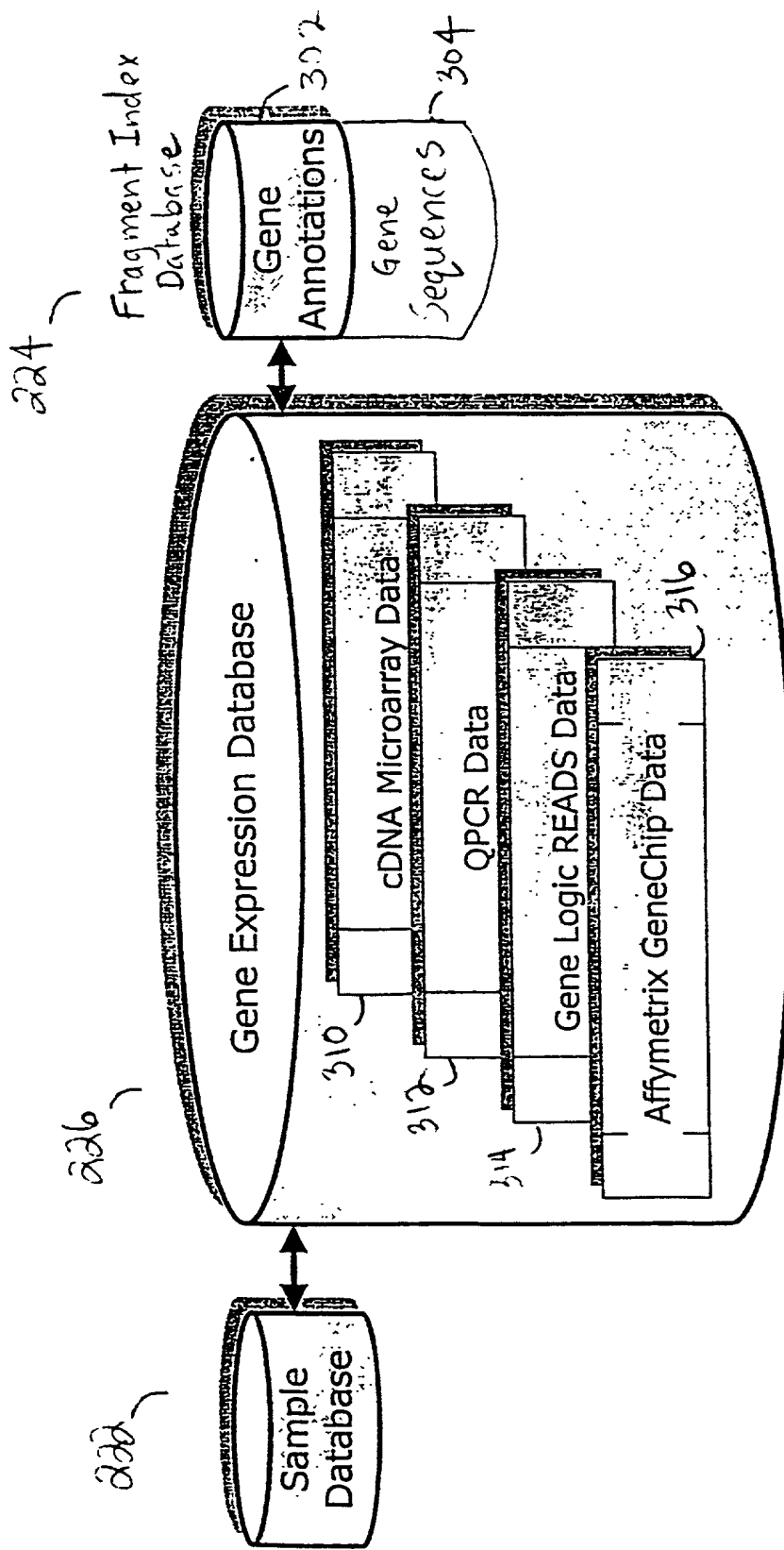


Figure 3

# Sample Attributes

Biosample	Donor	Study
<ul style="list-style-type: none"> <li>• species (human,rat)</li> <li>• type (tissue, cell)</li> <li>• organ (brain, liver, bone)</li> </ul>	<ul style="list-style-type: none"> <li>• gender</li> <li>• chemistry report</li> <li>• hematology report</li> </ul>	<ul style="list-style-type: none"> <li>• name</li> <li>• begin Date</li> <li>• end Date</li> <li>• description</li> <li>• time/dose groups</li> </ul>
Tissue	Human Specific	Per Group
<ul style="list-style-type: none"> <li>– excision date</li> <li>– time to freezing</li> </ul>	<ul style="list-style-type: none"> <li>– age</li> <li>– race</li> <li>– smoking Use</li> <li>– alcohol Use</li> </ul>	<ul style="list-style-type: none"> <li>– treatment agent</li> <li>– sampling time</li> <li>– admin time</li> <li>– dosing regiment</li> <li>– other repeated observation</li> </ul>
Cell Culture	Animal Specific	
<ul style="list-style-type: none"> <li>– type (primary, passaged,..)</li> <li>– celllural type</li> <li>– time after harvest</li> <li>– isolation method</li> </ul>	<ul style="list-style-type: none"> <li>– strain</li> <li>– weight</li> <li>– age at sacrifice</li> </ul>	

Figure 4

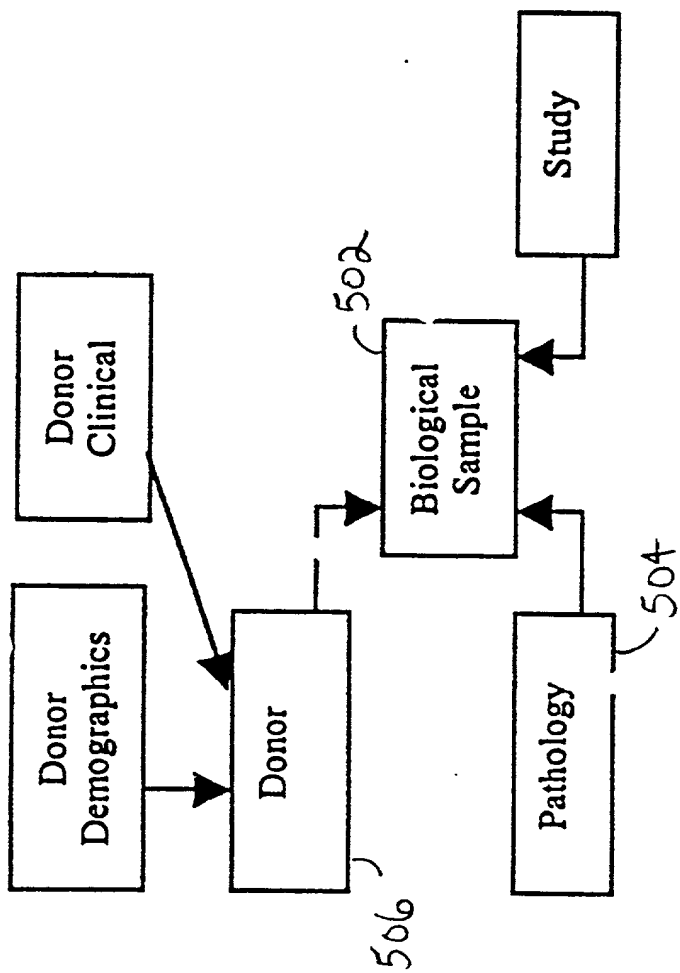


Figure 5

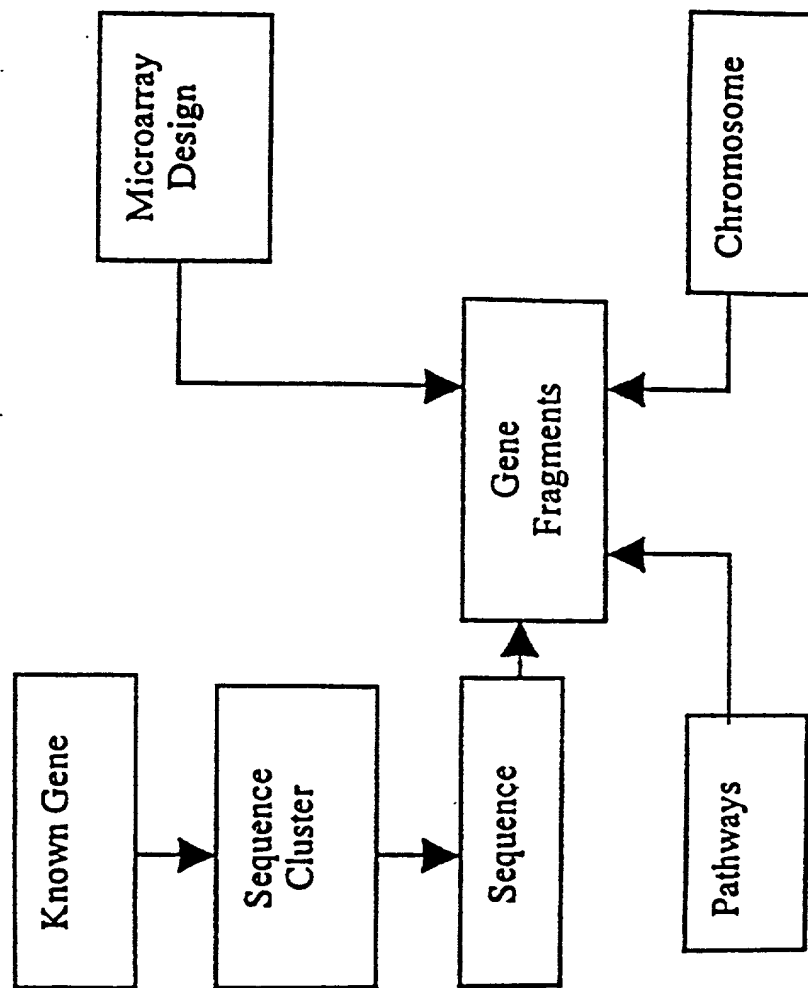


Figure 6

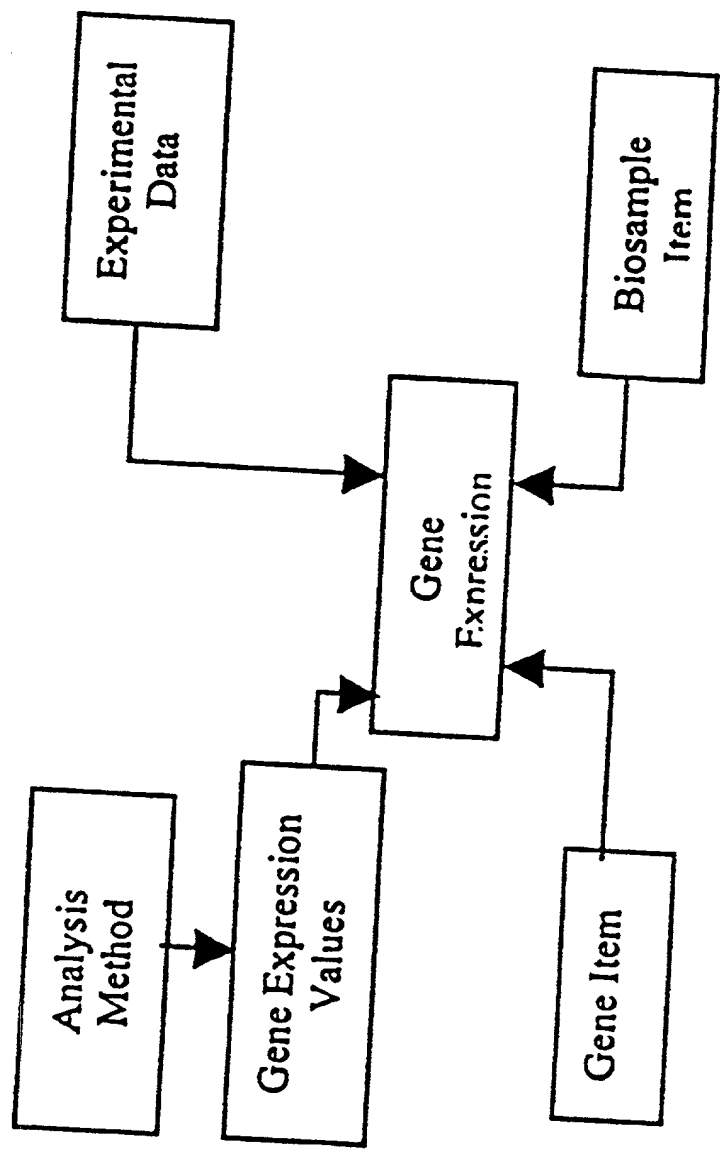


Figure 7

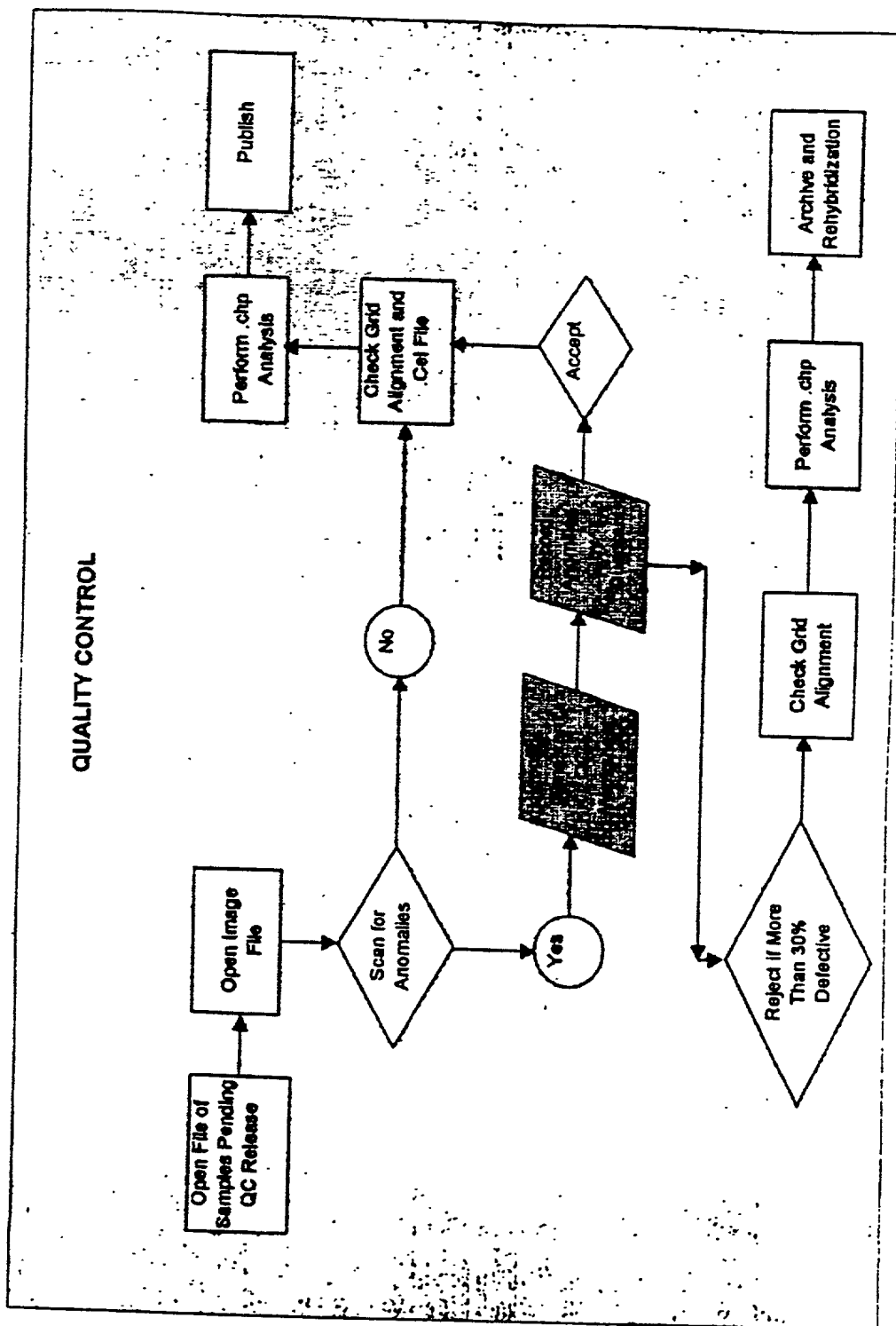


Figure 8



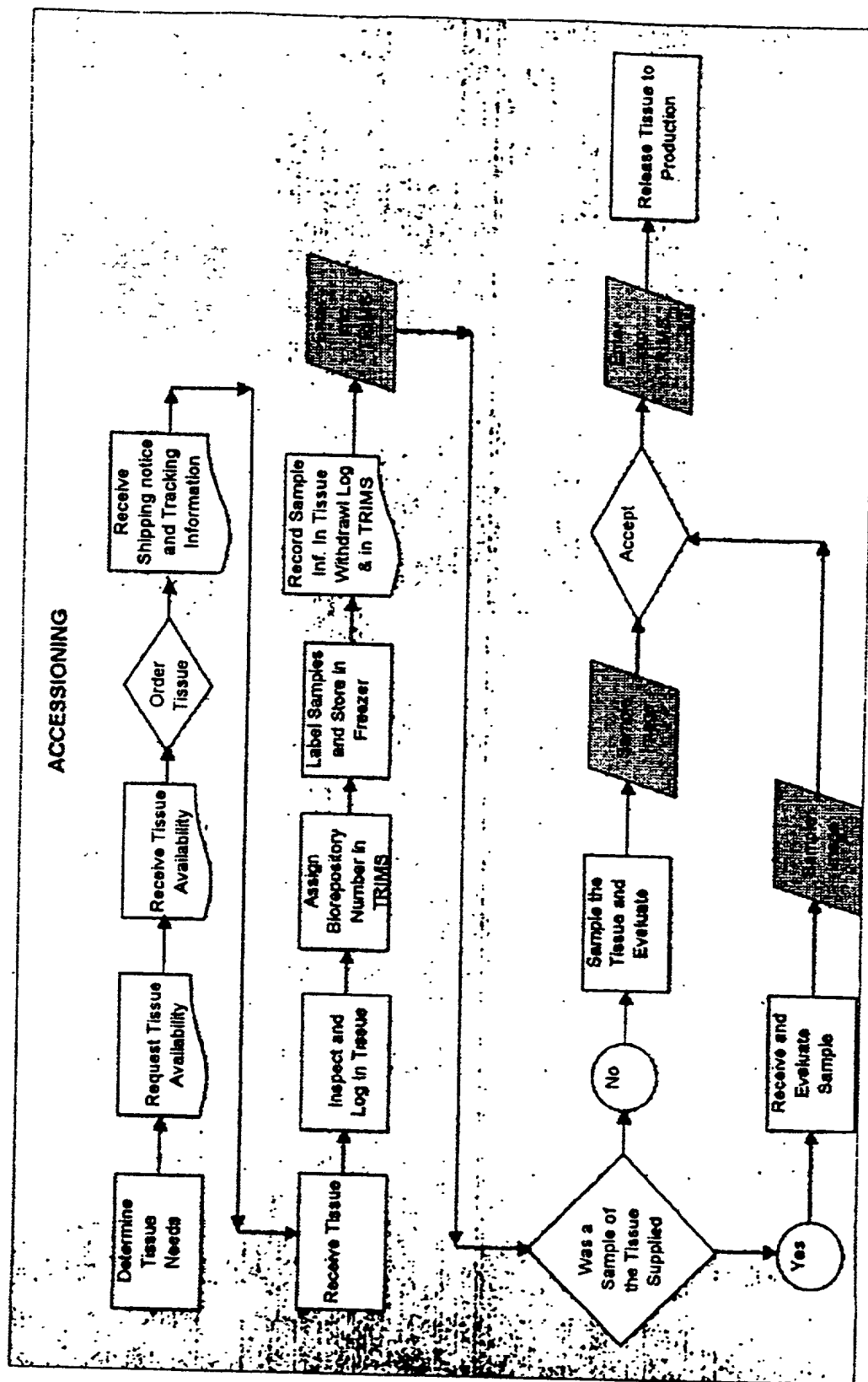


Figure 9

# GeneExpress Process Flow

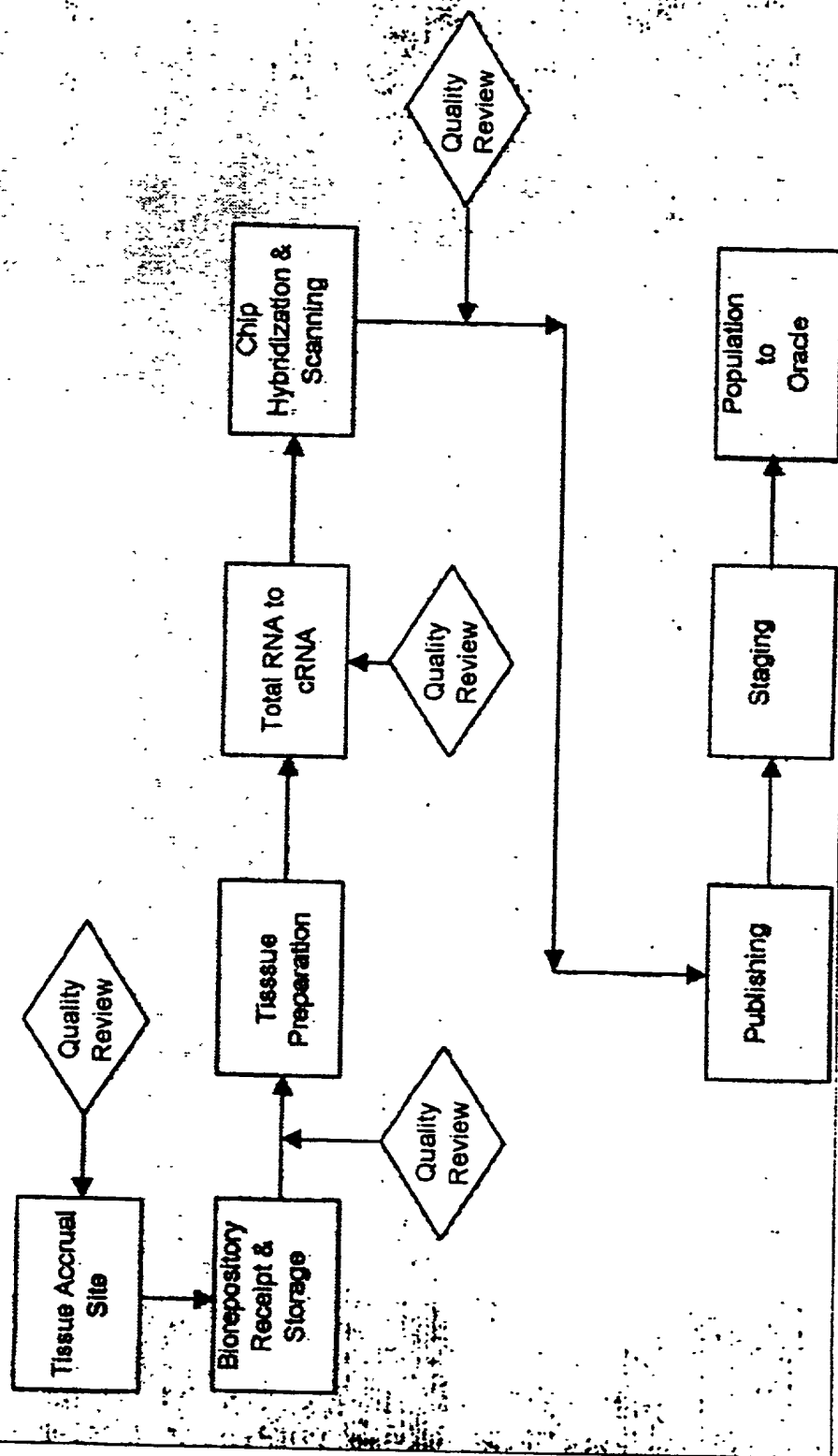


Figure 10

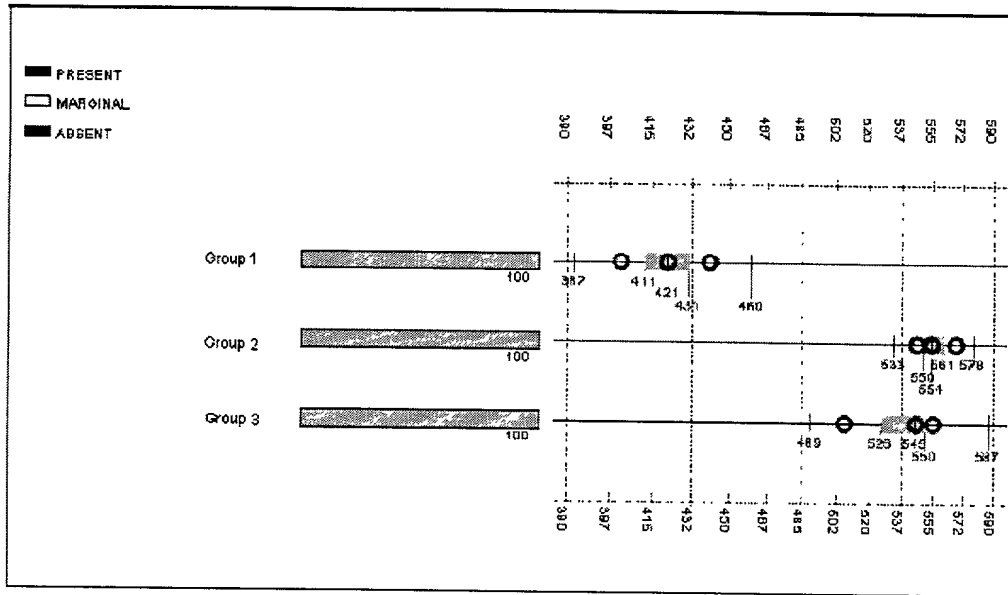


Figure 11

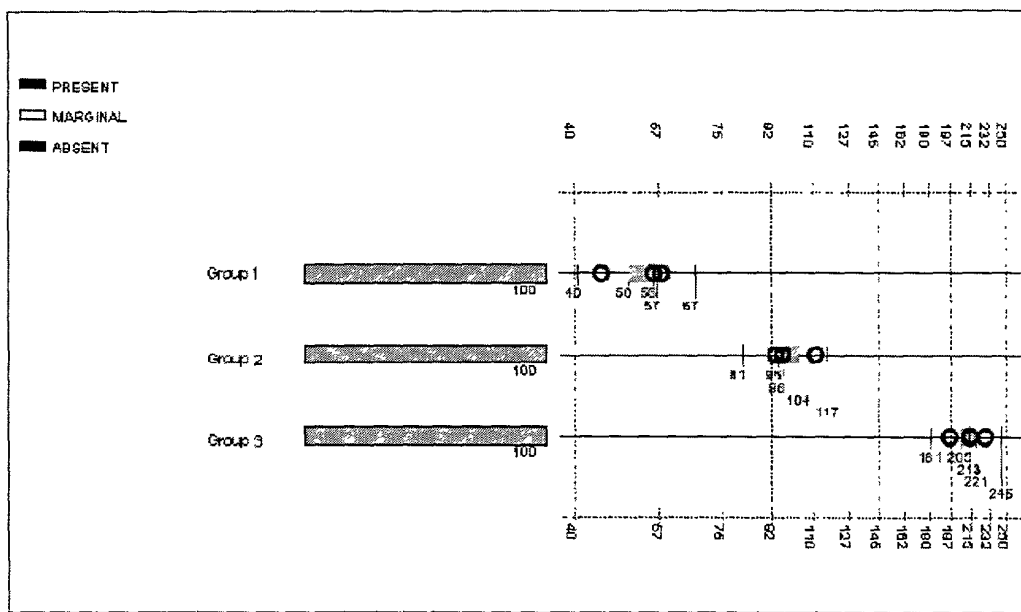


Figure 12

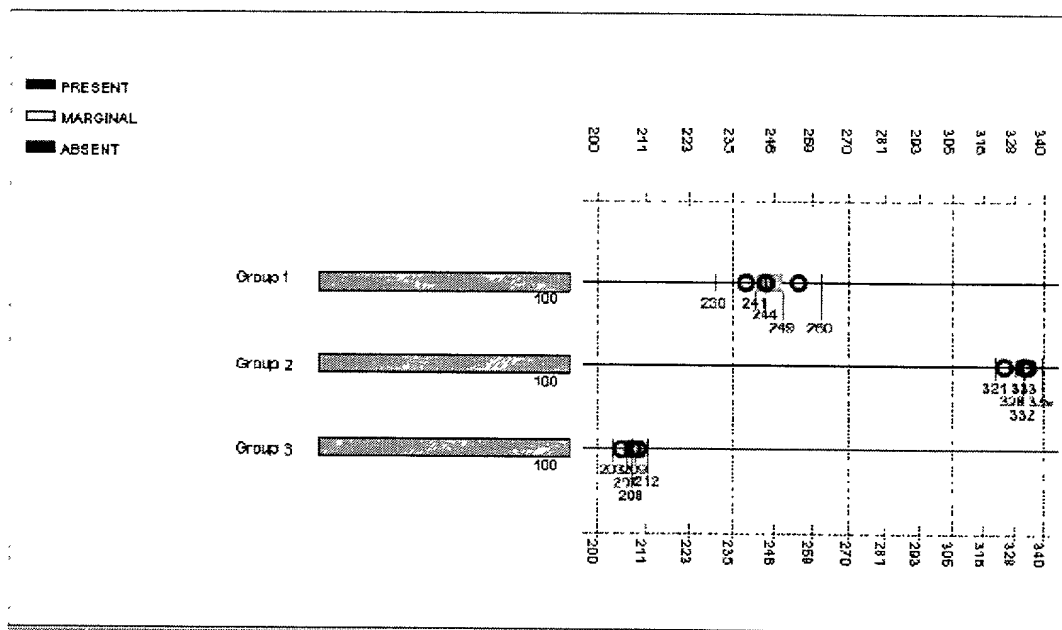


Figure 13